

SEARCH REQUEST FORM**Scientific and Technical Information Center**

Requester's Full Name: Dwayne Best Examiner #: 68451 Date: 3/10/04
 Art Unit: 262 Phone Number 30 _____ Serial Number: 10163655
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

US 5,105,409

***** STAFF USE ONLY		
	Type of Search	Vendors and cost where applicable
Searcher: <u>K.E.J.</u>	NA Sequence (#)	STN _____
Searcher Phone #:	AA Sequence (#)	Dialog _____
Searcher Location:	Structure (#)	Questel/Orbit _____
Date Searcher Picked Up:	Bibliographic	Dr. Link _____
Date Completed:	Litigation <u>X</u>	Lexis/Nexis _____
Searcher Prep & Review Time:	Fulltext	Sequence Systems _____
Clerical Prep Time:	Patent Family	WWW/Internet _____
Online Time: <u>25</u>	Other	Other (specify) _____

Query/Command : prt max legalall

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5105409 A 19920414 [US5105409]
TI - (A) METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION WITH TRACKING SERVO REDUCING TRACK OFFSET
PA - (A) HITACHI LTD (JP)
PA0 - Hitachi, Ltd., Tokyo [JP]
IN - (A) KAKU TOSHIMITSU (JP); SHIGEMATSU KAZUO (JP); SUGIYAMA HISATAKA (JP); MAEDA TAKESHI (JP); TAKASAGO MASAHIRO (JP)
AP - US23097188 19880811 [1988US-0230971]
PR - JP20400787 19870819 [1987JP-0204007]
IC - (A) G11B-007/095
EC - G11B-007/09C
PCL - ORIGINAL (O) : 369044310; CROSS-REFERENCE (X) : 369044330
369044350 369044420
DT - Corresponding document
CT - US4651314; US4742505; US4748609; US4751695; US4774698; US4785442;
US4807210; US4819220
STG - (A) United States patent
AB - Disclosed is an optical recording and reproducing apparatus comprising a light source directing a light spot toward a recording medium, a detection system detecting light reflected from the recording medium to derive an electrical signal from the reflected light, an information processing circuit modulating the intensity of the light spot according to writing pulses to record information on the recording medium and using the electrical signal to reproduce information from the recording medium, and a tracking servo circuit carrying out tracking servo operation on the basis of the electrical signal and including an extracting circuit connected to a source of extracting pulses having a pulse width at least equal to the writing pulse width so that writing pulse parts contained in the electrical signal are extracted during recording information, whereby a track offset occurring during information recording can be minimized, and the stability of the tracking servo system can be improved.

1 / 1 LGST - ©EPO

PN - US5105409 A 19920414 [US5105409]
AP - US23097188 19880811 [1988US-0230971]
ACT - 19880811 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: HITACHI, LTD. 6, KANDA SURUGADAI 4-CHOME, CHIYODA-;
EFFECTIVE DATE: 19880729

19880811 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KAKU, TOSHIMITSU; EFFECTIVE DATE: 19880729

19880811 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SHIGEMATSU, KAZUO; EFFECTIVE DATE: 19880729

19880811 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SUGIYAMA, HISATAKA; EFFECTIVE DATE: 19880729

19880811 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MAEDA, TAKESHI; EFFECTIVE DATE: 19880729

19880811 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: TAK; EFFECTIVE DATE: 19880729

20000627 US/FP-A [-]
EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE
EFFECTIVE DATE: 20000414

20031028 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030805

UP - 2003-45

1 / 1 CRXX - ©CLAIMS/RRX

PN -  5,105,409 A 19920414 [US5105409]
PA - Hitachi Ltd JP
ACT - 20000627 EXPIRED (20000414)

20030805 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20031028
REISSUE REQUEST NUMBER: 10/633655
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2651

Reissue Patent Number:

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5105409

<=1> GET 1st DRAWING SHEET OF 4

April 14, 1992

Method and apparatus for optical recording and reproduction
with tracking servo reducing track offset

REISSUE: August 5, 2003 - Reissue Application filed Ex. Gp.: 2651; Re. S.N.
10/633,655 (O.G. October 28, 2003)

APPL-NO: 230971 (07)

FILED-DATE: August 11, 1988

GRANTED-DATE: April 14, 1992

CORE TERMS: pulse, recording, sub, tracking, optical, track, disk, amplifier,
offset, servo ...

LEXIS-NEXIS
Library: PATENT
File: ALL

5,105,409 OR 5105409

LEXIS-NEXIS
Library: PATENT
File: CASES

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What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,105,409 OR 5105409

LEXIS-NEXIS
Library: PATENT
File: JNLS

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5,105,409 OR 5105409

LEXIS-NEXIS
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For further explanation, press the H key (for HELP) and then the ENTER key.

s pn=us 5105409
S7 1 PN=US 5105409
? t 7/39/1

7/39/1

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat
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8559205
Basic Patent (No,Kind,Date): EP 303936 A2 19890222 <No. of Patents: 008>

Patent Family:

Patent No	Kind	Date	AppliC No	Kind	Date
DE 3887228	C0	19940303	EP 88112894	A	19880808
DE 3887228	T2	19940505	EP 88112894	A	19880808
EP 303936	A2	19890222	EP 88112894	A	19880808 (BASIC)
EP 303936	A3	19901128	EP 88112894	A	19880808
EP 303936	B1	19940119	EP 88112894	A	19880808
JP 1048226	A2	19890222	JP 87204007	A	19870819
JP 2585281	B2	19970226	JP 87204007	A	19870819
US 5105409	A	19920414	US 230971	A	19880811

Priority Data (No,Kind,Date):
JP 87204007 A 19870819

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 3887228 C0 19940303

VERFAHREN UND GERAET FUER OPTISCHE AUFNAHME UND WIEDERGABE. (German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): KAKU TOSHIMITSU (JP); SHIGEMATSU KAZUO (JP);
SUGIYAMA HISATAKA (JP); MAEDA TAKESHI (JP); TAKASAGO MASAHIRO (JP)

Priority (No,Kind,Date): JP 87204007 A 19870819

AppliC (No,Kind,Date): EP 88112894 A 19880808

IPC: * G11B-007/09; G11B-007/095; G11B-007/08

Derwent WPI Acc No: * G 89-055386

JAPIO Reference No: * 130250P000023

Language of Document: German

Patent (No,Kind,Date): DE 3887228 T2 19940505

VERFAHREN UND GERAET FUER OPTISCHE AUFNAHME UND WIEDERGABE. (German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): KAKU TOSHIMITSU (JP); SHIGEMATSU KAZUO (JP);
SUGIYAMA HISATAKA (JP); MAEDA TAKESHI (JP); TAKASAGO MASAHIRO (JP)

Priority (No,Kind,Date): JP 87204007 A 19870819

AppliC (No,Kind,Date): EP 88112894 A 19880808

IPC: * G11B-007/09; G11B-007/095; G11B-007/08

Derwent WPI Acc No: * G 89-055386

JAPIO Reference No: * 130250P000023

Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 3887228 P 19940303 DE REF CORRESPONDS TO
(ENTSPRICHT)

EP 303936 P 19940303

DE 3887228 P 19940505 DE 8373 TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER
PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)

DE 3887228 P 19950223 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No, Kind, Date) : EP 303936 A2 19890222
METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION (English;
French; German)

Patent Assignee: HITACHI LTD (JP)
Author (Inventor): KAKU TOSHIMITSU; SHIGEMATSU KAZUO; SUGIYAMA
HISATAKA; MAEDA TAKESHI; TAKASAGO MASAHIRO

Priority (No, Kind, Date) : JP 87204007 A 19870819

Applic (No, Kind, Date) : EP 88112894 A 19880808

Designated States: (National) DE; GB

IPC: * G11B-007/09; G11B-007/08

Derwent WPI Acc No: ; G 89-055386

Language of Document: English

Patent (No, Kind, Date) : EP 303936 A3 19901128
METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION (English;
French; German)

Patent Assignee: HITACHI LTD (JP)
Author (Inventor): KAKU TOSHIMITSU; SHIGEMATSU KAZUO; SUGIYAMA
HISATAKA; MAEDA TAKESHI; TAKASAGO MASAHIRO

Priority (No, Kind, Date) : JP 87204007 A 19870819

Applic (No, Kind, Date) : EP 88112894 A 19880808

Designated States: (National) DE; GB

IPC: * G11B-007/09; G11B-007/08

Derwent WPI Acc No: * G 89-055386

JAPIO Reference No: * 130250P000023

Language of Document: English

Patent (No, Kind, Date) : EP 303936 B1 19940119
METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION (English;
French; German)

Patent Assignee: HITACHI LTD (JP)
Author (Inventor): KAKU TOSHIMITSU (JP); SHIGEMATSU KAZUO (JP);
SUGIYAMA HISATAKA (JP); MAEDA TAKESHI (JP); TAKASAGO MASAHIRO (JP)

Priority (No, Kind, Date) : JP 87204007 A 19870819

Applic (No, Kind, Date) : EP 88112894 A 19880808

Designated States: (National) DE; GB

IPC: * G11B-007/09; G11B-007/095; G11B-007/08

Derwent WPI Acc No: * G 89-055386

JAPIO Reference No: * 130250P000023

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No, Type, Date, Code, Text):

EP 303936 P 19870819 EP AA PRIORITY (PATENT
APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 303936 P 19880808 EP AE EP-APPLICATION
(EUROPAEISCHE ANMELDUNG)
EP 88112894 A 19880808

EP 303936 P 19890222 EP AK DESIGNATED CONTRACTING
STATES IN AN APPLICATION WITHOUT SEARCH
REPORT (IN EINER ANMELDUNG OHNE
RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)

EP 303936 P 19890222 EP A2 PUBLICATION OF APPLICATION
WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER
ANMELDUNG OHNE RECHERCHENBERICHT)

EP 303936 P 19901128 EP AK DESIGNATED CONTRACTING
STATES IN A SEARCH REPORT (IN EINEM

RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)

DE GB
EP 303936 P 19901128 EP A3 SEPARATE PUBLICATION OF THE
SEARCH REPORT (ART. 93) (GESONDERTE
VEROEFFENTLICHUNG DES RECHERCHENBERICHTS
(ART. 93))
EP 303936 P 19910206 EP 17P REQUEST FOR EXAMINATION
FILED (PRUEFUNGSANTRAG GESTELLT)
901212
EP 303936 P 19920603 EP 17Q FIRST EXAMINATION REPORT
(ERSTER PRUEFUNGSBESCHEID)
920416
EP 303936 P 19940119 EP AK DESIGNATED CONTRACTING
STATES MENTIONED IN A PATENT SPECIFICATION
(IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT
VERTRAGSSTAATEN)
DE GB
EP 303936 P 19940119 EP B1 PATENT SPECIFICATION
(PATENTSCHRIFT)
EP 303936 P 19940303 EP REF CORRESPONDS TO:
(ENTSPRICHT)
DE 3887228 P 199403.03
EP 303936 P 19950111 EP 26N NO OPPOSITION FILED (KEIN
EINSPRUCH EINGELEGT)
EP 303936 P 20020101 GB IF02/REG EUROPEAN PATENT IN FORCE AS
OF 2002-01-01

JAPAN (JP)

Patent (No,Kind,Date): JP 1048226 A2 19890222
OPTICAL DISK DEVICE (English)
Patent Assignee: HITACHI LTD
Author (Inventor): KAKU TOSHIMITSU; SHIGEMATSU KAZUO; SUGIYAMA
HISATAKA; MAEDA TAKESHI; TAKASAGO MASAHIRO
Priority (No,Kind,Date): JP 87204007 A 19870819
Aplic (No,Kind,Date): JP 87204007 A 19870819
IPC: * G11B-007/00
JAPIO Reference No: ; 130250P000023
Language of Document: Japanese
Patent (No,Kind,Date): JP 2585281 B2 19970226
Priority (No,Kind,Date): JP 87204007 A 19870819
Aplic (No,Kind,Date): JP 87204007 A 19870819
IPC: * G11B-007/00
Derwent WPI Acc No: * G 89-055386
JAPIO Reference No: * 130250P000023
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5105409 A 19920414
METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION WITH
TRACKING SERVO REDUCING TRACK OFFSET (English)
Patent Assignee: HITACHI LTD (JP)
Author (Inventor): KAKU TOSHIMITSU (JP); SHIGEMATSU KAZUO (JP);
SUGIYAMA HISATAKA (JP); MAEDA TAKESHI (JP); TAKASAGO MASAHIRO (JP)
Priority (No,Kind,Date): JP 87204007 A 19870819
Aplic (No,Kind,Date): US 230971 A 19880811
National Class: * 369044310; 369044330; 369044350; 369044420
IPC: * G11B-007/095
Derwent WPI Acc No: * G 89-055386
JAPIO Reference No: * 130250P000023
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No, Type, Date, Code, Text) :

US 5105409	P	19870819 US AA	PRIORITY (PATENT)
		JP 87204007 A	19870819
US 5105409	P	19880811 US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))	
		US 230971 A	19880811
US 5105409	P	19880811 US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST
		HITACHI, LTD. 6, KANDA SURUGADAI 4-CHOME,	
		CHIYODA-KY, TOKYO, JAPAN, A CORP. OF J ;	
		KAKU, TOSHIMITSU : 19880729; SHIGEMATSU,	
		KAZUO : 19880729; SUGIYAMA, HISATAKA :	
		19880729; MAEDA, TAKESHI : 19880729; TAK :	
		19880729	
US 5105409	P	19920414 US A	PATENT
US 5105409	P	20000627 US FP	EXPIRED DUE TO FAILURE TO
		PAY MAINTENANCE FEE	
		20000414	
US 5105409	P	20031028 US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)	
		DATE: 20030805	